

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P945872

Luminaire Tested: **GALN-SB1C-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4596 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

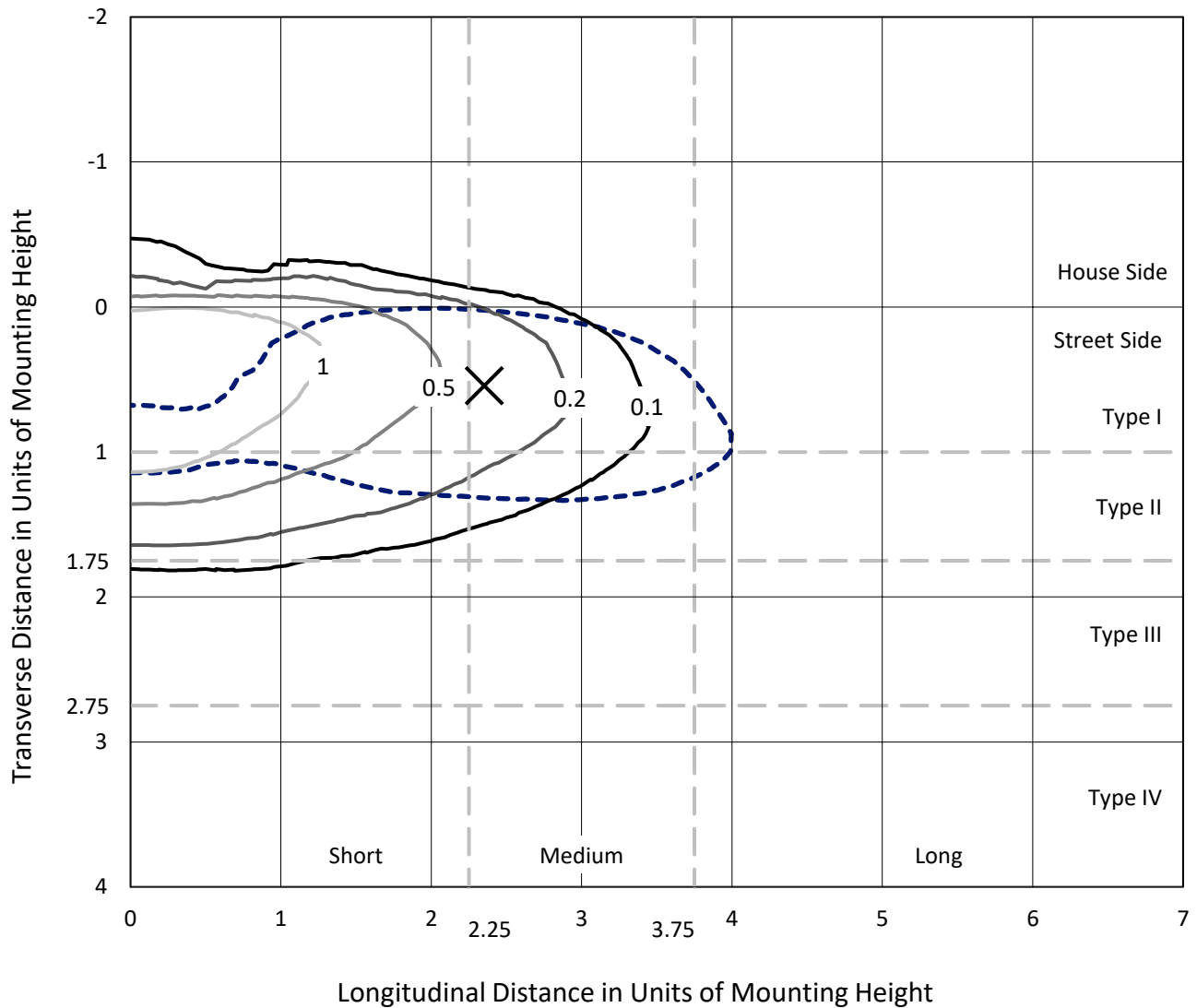
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

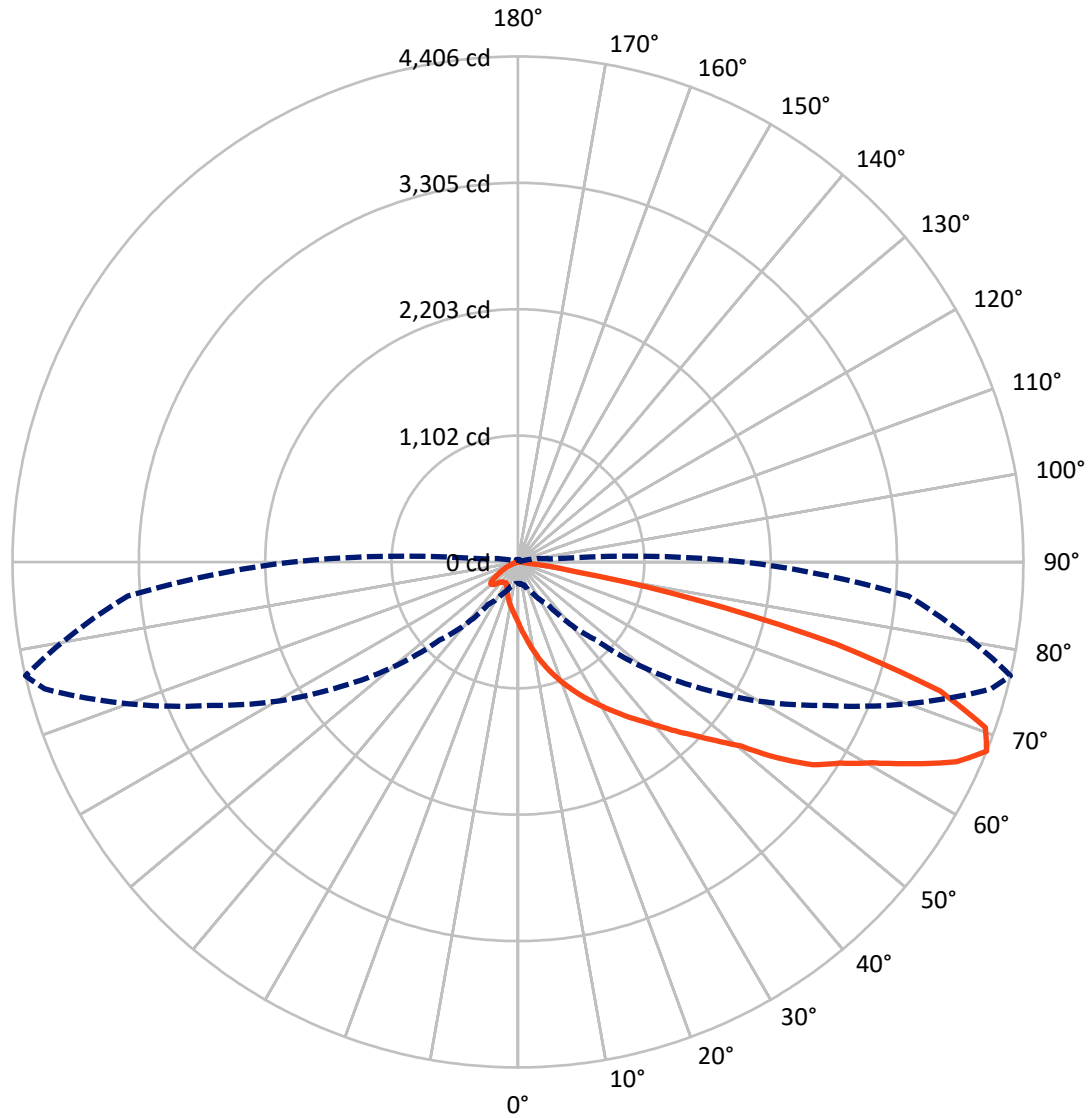
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	338.1	0.0	338.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	4257.9	0.0	4257.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	4596.0	0.0	4596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	1.2
10°-20°	189.4	4.1
20°-30°	365.6	8.0
30°-40°	634.6	13.8
40°-50°	921.4	20.0
50°-60°	1058.1	23.0
60°-70°	918.7	20.0
70°-80°	432.7	9.4
80°-90°	21.4	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4596.0	100.0
0°-180°	4596.0	100.0

Coefficient of Utilization



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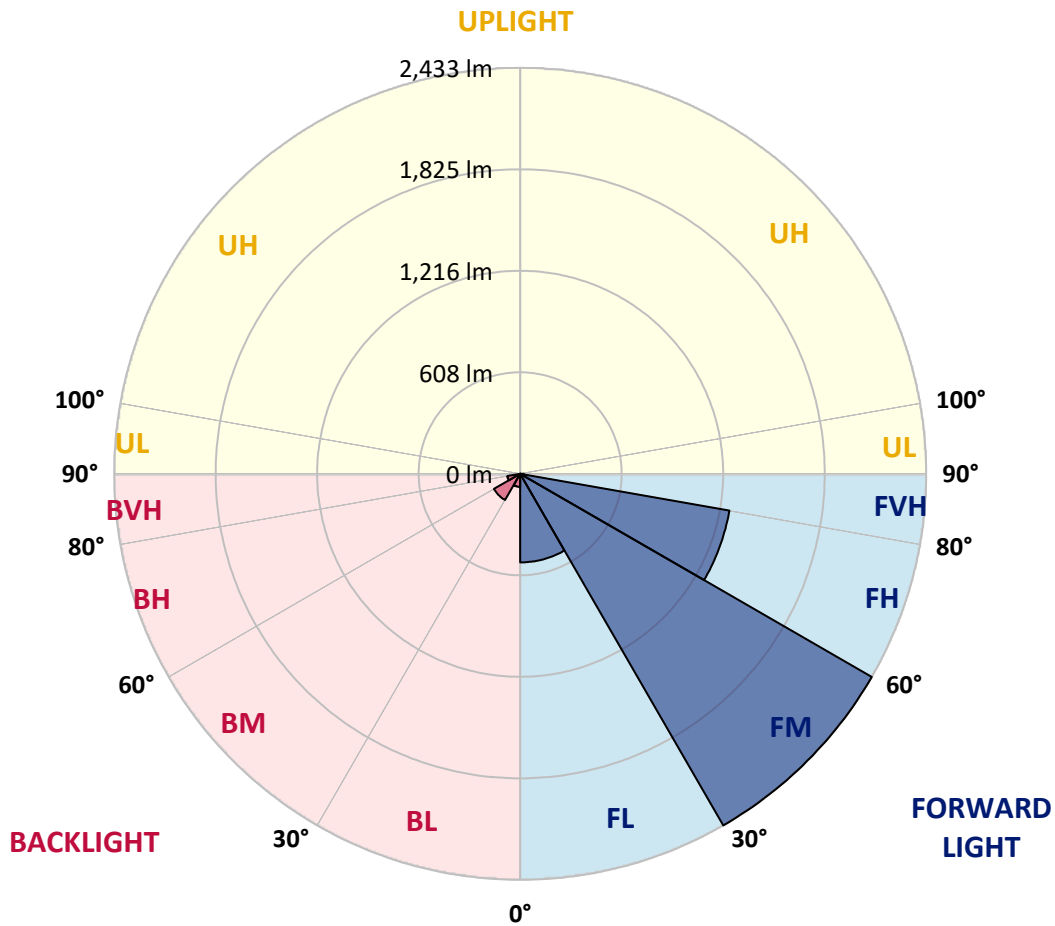
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	530.8	11.5			
FM (30°-60°)	2433.0	52.9			
FH (60°-80°)	1273.1	27.7			G1/1800
FVH (80°-90°)	21.0	0.5			G1/100
BL (0°-30°)	78.3	1.7	B0/110		
BM (30°-60°)	181.2	3.9	B0/220		
BH (60°-80°)	78.3	1.7	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	530.0	530.0	530.0	530.0	530.0	530.0	530.0	530.0	530.0	530.0
2.5°	733.8	738.3	731.8	719.2	700.4	688.1	658.1	629.9	598.5	588.5
5°	894.4	898.4	891.0	877.3	852.2	828.2	788.8	729.8	668.4	648.7
7.5°	1013.5	1015.7	1012.9	1000.3	976.4	949.2	905.3	835.4	744.3	722.6
10°	1099.1	1106.5	1105.6	1100.8	1084.8	1062.8	1016.0	936.4	829.4	801.4
12.5°	1155.9	1164.1	1169.0	1179.8	1179.0	1165.0	1123.9	1039.7	914.1	881.3
15°	1172.4	1181.3	1199.8	1224.9	1247.2	1254.3	1225.5	1141.0	1007.5	965.5
17.5°	1163.0	1176.7	1199.0	1238.6	1287.4	1319.7	1316.5	1238.9	1092.2	1044.3
20°	1183.8	1197.0	1214.4	1247.8	1304.6	1363.1	1386.5	1332.5	1176.4	1126.2
22.5°	1299.1	1296.9	1298.6	1304.0	1338.0	1395.9	1444.1	1417.6	1259.8	1208.4
25°	1481.8	1471.5	1454.1	1424.7	1416.2	1444.1	1494.4	1492.9	1347.7	1292.6
27.5°	1691.3	1689.6	1648.8	1578.0	1538.0	1527.2	1551.1	1566.3	1434.7	1375.9
30°	1891.9	1896.5	1841.4	1762.6	1689.3	1646.8	1625.1	1635.9	1523.2	1465.8
32.5°	2066.6	2071.4	2011.5	1919.3	1828.6	1777.2	1731.5	1704.7	1619.6	1557.1
35°	2214.1	2219.0	2150.2	2048.3	1951.6	1905.0	1853.4	1780.0	1716.7	1658.5
37.5°	2346.0	2344.6	2252.4	2149.6	2054.6	2017.8	1990.7	1872.8	1816.6	1760.3
40°	2423.9	2429.9	2351.1	2237.8	2145.6	2118.8	2117.1	1987.8	1931.9	1877.4
42.5°	2446.7	2457.3	2400.2	2307.2	2223.5	2194.4	2239.2	2112.2	2066.0	2012.9
45°	2405.6	2415.9	2389.9	2325.4	2276.6	2257.8	2344.3	2241.2	2209.3	2156.8
47.5°	2285.8	2298.6	2304.9	2291.2	2290.6	2309.7	2438.5	2377.1	2379.4	2325.7
50°	2053.7	2075.4	2133.1	2181.6	2256.7	2350.8	2530.1	2524.4	2571.2	2524.9
52.5°	1631.9	1662.7	1861.4	1994.1	2162.8	2343.1	2630.8	2760.7	2907.6	2840.0
55°	1311.4	1311.4	1472.9	1721.2	1979.5	2292.3	2674.8	2914.2	3136.8	3120.8
57.5°	1069.1	1081.9	1185.0	1404.4	1714.4	2171.3	2701.9	3010.7	3321.5	3309.8
60°	659.8	687.5	882.2	1098.8	1412.7	1955.8	2684.8	3108.3	3545.5	3554.9
62.5°	371.6	381.9	468.6	790.6	1098.5	1666.2	2553.8	3162.8	3832.1	3872.0
65°	256.6	261.7	295.1	492.0	761.4	1326.5	2297.7	3128.8	4119.2	4199.9
67.5°	186.4	188.9	209.8	300.5	451.8	961.8	1896.5	2957.6	4271.3	4406.3
70°	143.3	145.0	160.1	197.5	266.8	593.6	1377.3	2617.1	4161.1	4322.4
72.5°	116.4	118.2	129.9	146.1	176.9	351.0	834.8	2125.4	3674.8	3848.9
75°	98.2	100.5	111.0	121.6	138.7	225.5	391.6	1480.1	2763.5	2877.7
77.5°	54.5	50.2	90.2	100.7	117.0	142.7	183.2	871.0	1547.7	1579.4
80°	34.0	35.1	71.6	81.1	89.9	71.9	83.9	335.3	536.6	509.7
82.5°	2.0	4.6	55.1	58.5	61.6	30.8	31.7	113.9	129.3	118.7
85°	0.0	0.0	25.1	20.3	21.4	8.8	9.1	26.5	17.4	18.8
87.5°	0.0	0.0	0.0	0.6	0.0	0.9	1.7	2.3	0.9	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
530.0	0°	530.0	530.0	530.0	530.0	530.0	530.0	530.0	530.0	530.0	530.0
557.1	2.5°	537.1	517.1	476.6	436.9	404.7	374.7	353.3	333.1	322.8	322.2
593.1	5°	553.4	511.4	430.4	358.7	301.1	254.9	224.9	203.5	192.6	188.9
637.3	7.5°	576.2	513.1	389.9	290.3	222.3	182.7	165.5	158.7	156.4	153.8
687.2	10°	605.0	517.1	353.6	233.7	175.2	155.3	148.4	145.6	143.8	142.1
743.5	12.5°	637.3	520.9	317.6	194.1	154.1	143.8	139.0	135.6	133.3	131.3
801.1	15°	668.7	523.1	280.3	166.4	143.3	135.0	129.9	126.1	123.0	120.7
857.6	17.5°	699.8	526.3	245.2	149.8	134.4	126.1	121.0	116.4	113.9	111.3
917.0	20°	734.3	525.7	212.1	138.1	125.6	117.3	111.9	107.6	105.0	102.2
979.8	22.5°	766.3	522.9	182.9	128.1	116.4	108.5	102.5	98.2	95.6	93.3
1044.0	25°	803.1	520.6	158.7	119.0	107.9	99.9	93.3	89.3	86.5	84.5
1108.5	27.5°	838.5	517.1	141.0	110.7	99.6	91.9	85.6	81.1	78.5	77.1
1175.0	30°	873.3	516.3	134.4	102.7	92.2	84.5	78.2	73.9	71.9	71.3
1248.1	32.5°	915.3	518.6	137.3	99.9	85.3	77.6	71.6	68.5	66.5	66.5
1329.4	35°	960.1	518.0	141.6	102.5	80.8	70.8	66.2	64.2	62.2	62.2
1419.6	37.5°	1016.3	518.9	145.0	106.7	79.1	65.1	62.5	59.9	58.8	58.8
1518.3	40°	1100.2	547.1	143.3	110.4	78.5	61.1	55.9	55.1	54.2	54.2
1629.9	42.5°	1203.0	608.5	145.6	110.7	78.2	58.2	51.4	53.1	51.1	50.8
1755.8	45°	1315.4	675.5	160.1	104.7	77.9	56.8	49.1	51.1	47.9	47.9
1901.6	47.5°	1427.0	742.0	174.9	96.2	77.1	56.5	47.1	45.9	45.1	45.4
2091.7	50°	1580.8	796.3	180.7	84.5	75.1	55.9	43.4	43.7	43.1	43.7
2359.7	52.5°	1748.4	807.7	173.8	71.3	69.4	54.2	40.8	42.0	41.7	42.2
2548.3	55°	1852.8	795.4	143.6	59.4	60.5	47.4	38.2	40.5	40.5	40.5
2732.7	57.5°	1960.7	743.2	101.9	48.2	50.2	38.8	36.0	39.1	38.8	38.5
2954.7	60°	2038.3	658.7	67.1	39.7	40.0	32.0	33.4	36.8	36.5	35.1
3183.6	62.5°	2096.3	565.4	43.1	33.7	30.5	28.8	30.5	33.4	32.3	29.1
3377.7	65°	2089.7	436.1	33.1	28.8	25.1	25.1	26.5	29.1	25.7	20.5
3414.8	67.5°	1967.8	295.1	27.4	24.3	21.1	20.8	22.0	24.3	22.0	17.4
3224.7	70°	1750.1	192.9	22.0	18.8	16.8	15.4	17.7	20.8	18.6	14.0
2745.3	72.5°	1420.4	117.6	16.6	13.7	12.3	10.0	14.0	17.1	14.8	10.3
1909.0	75°	919.0	59.9	11.4	8.8	6.6	6.0	10.3	12.8	10.3	6.3
847.1	77.5°	351.6	25.1	6.3	4.0	3.4	2.9	5.7	7.7	4.3	1.4
164.1	80°	67.6	10.6	3.1	2.0	1.7	1.1	0.9	0.6	0.0	0.0
29.1	82.5°	11.7	3.4	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0
5.7	85°	4.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.0	87.5°	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
530.0
321.6
188.4
153.3
141.6
130.7
120.4
111.0
101.9
93.0
84.2
77.1
71.1
66.5
62.2
58.8
54.2
50.5
47.9
45.4
43.7
42.2
40.5
38.5
35.1
28.5
20.0
16.8
13.4
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